

ABSTRACT OF THE DISCLOSURE

The present invention provides an antenna for multiple bands employing a single antenna element 10, capable of operating in multiple frequency bands, and ideal for size reduction purposes. One end A of an antenna element 10 is electrically connected to a feeding point 12 and intermediate points B and C and the other end thereof is electrically connected via switches SWb, SWc, and SWd to a ground conductor 14. The electrical lengths of the antenna element 10 from the terminal to the intermediate points B and C plus connection lines from these points via the switches SWb and SWc to the ground conductor 14 and the electrical length from the one end A to the other end D plus a connection line from the other end via the switch SWd to the ground conductor 14 are set to be capable of resonating different desired frequency bands. By closing one of the switches SWb, SWc, and SWd, one of the desired frequencies can be selected and the antenna can resonate with that frequency. Thus, the antenna employing the single antenna element 10 can operate in multiple frequency bands.